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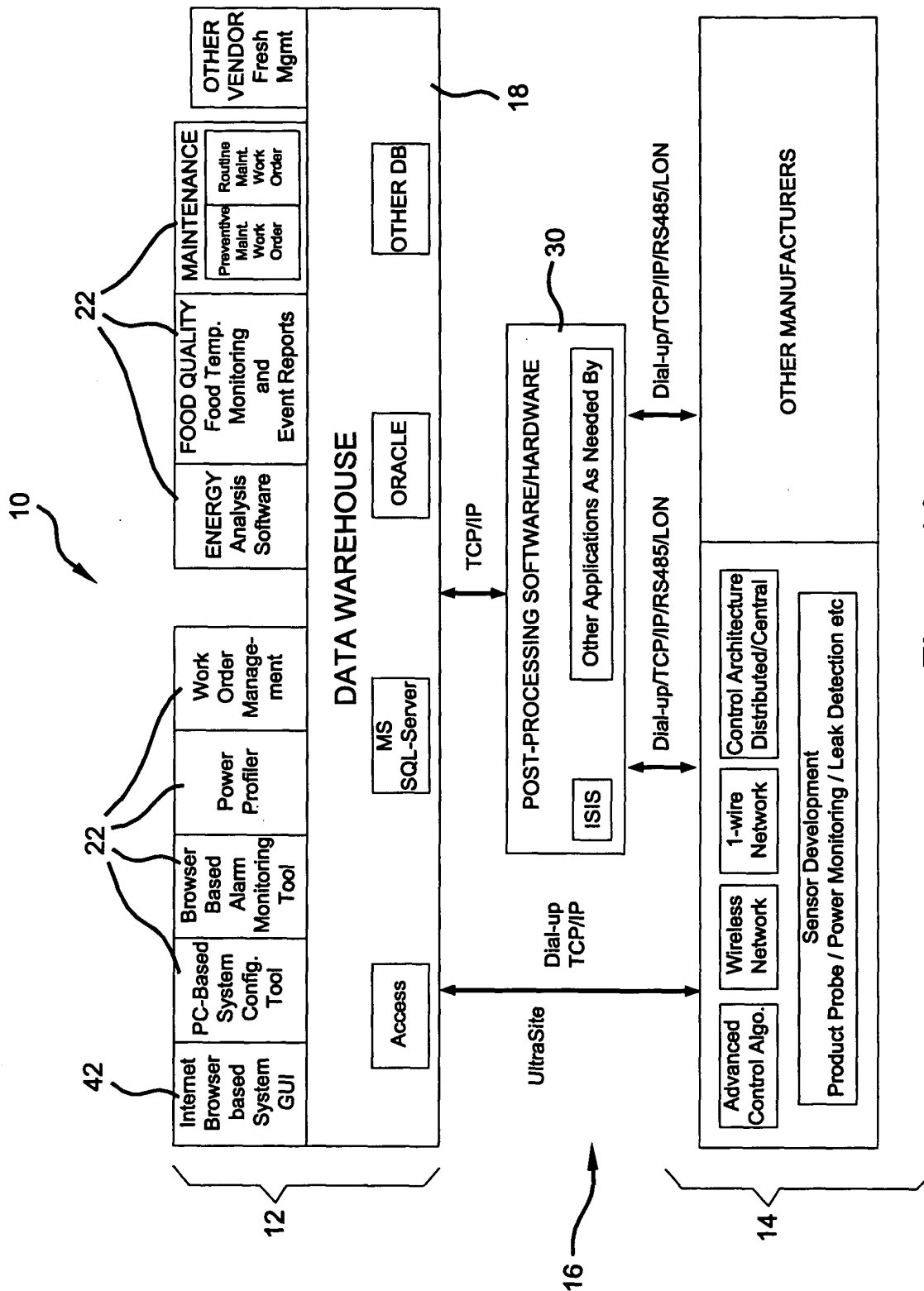


Figure 1A

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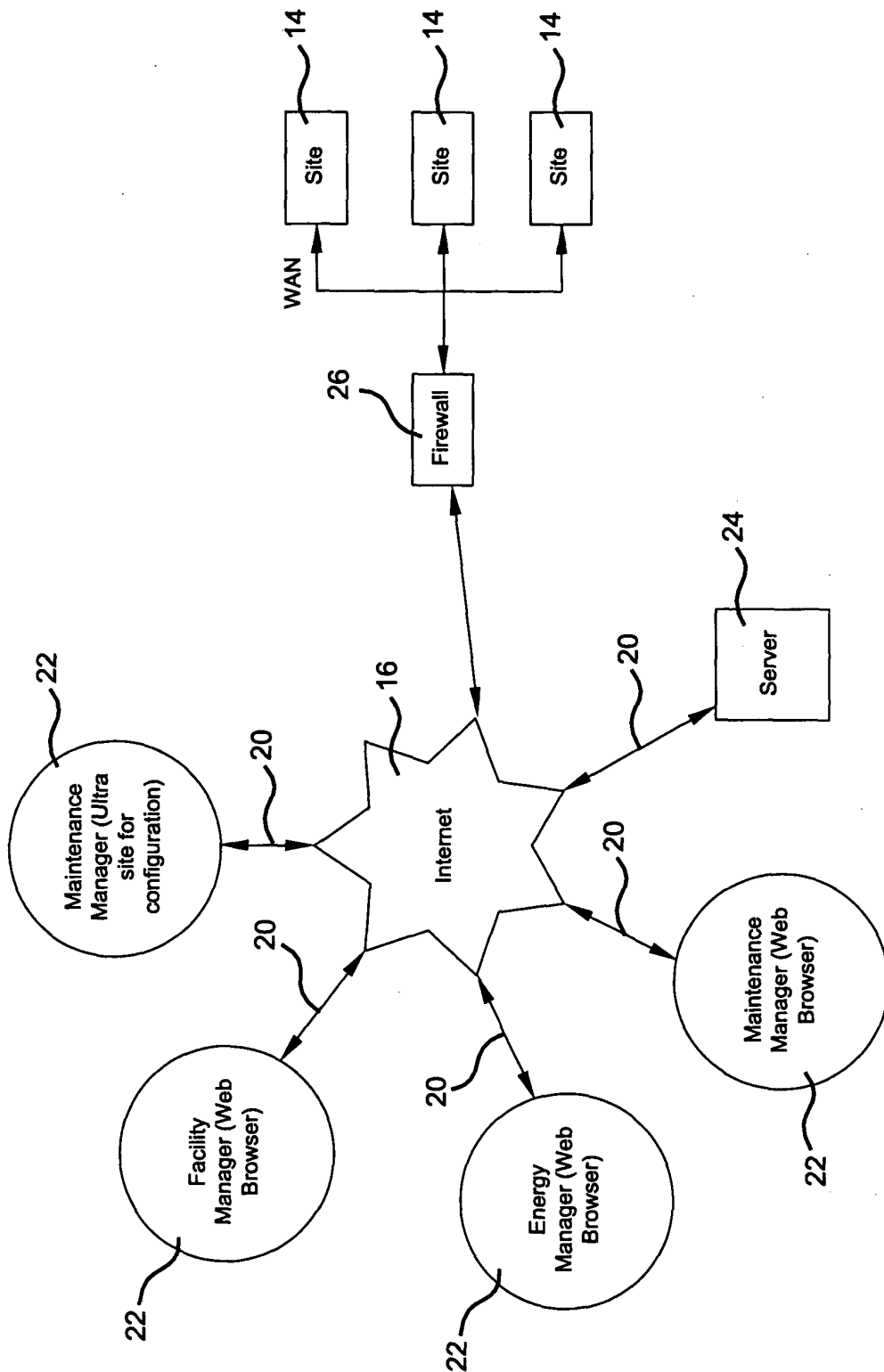


Figure 1B

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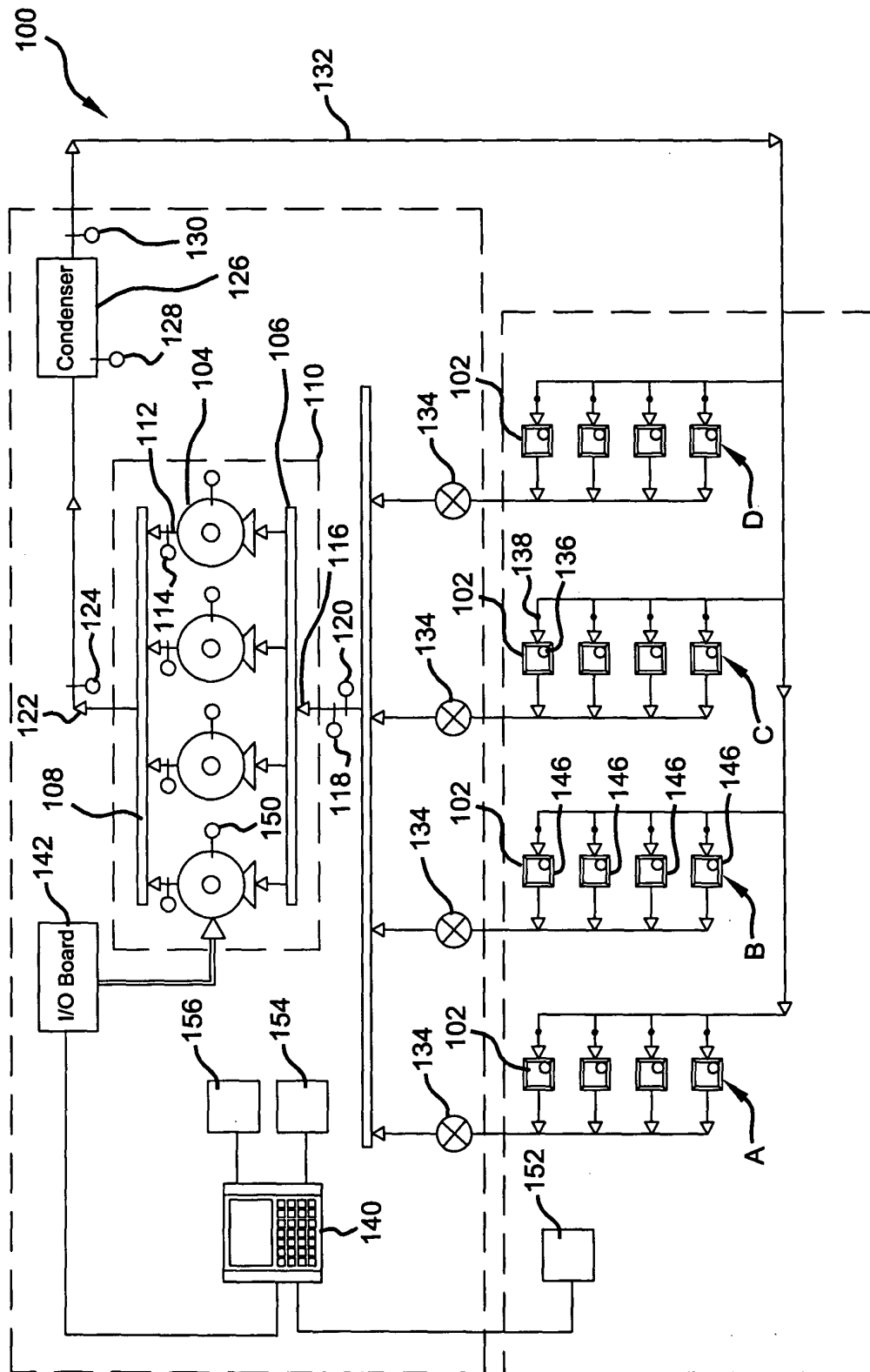


Figure 2

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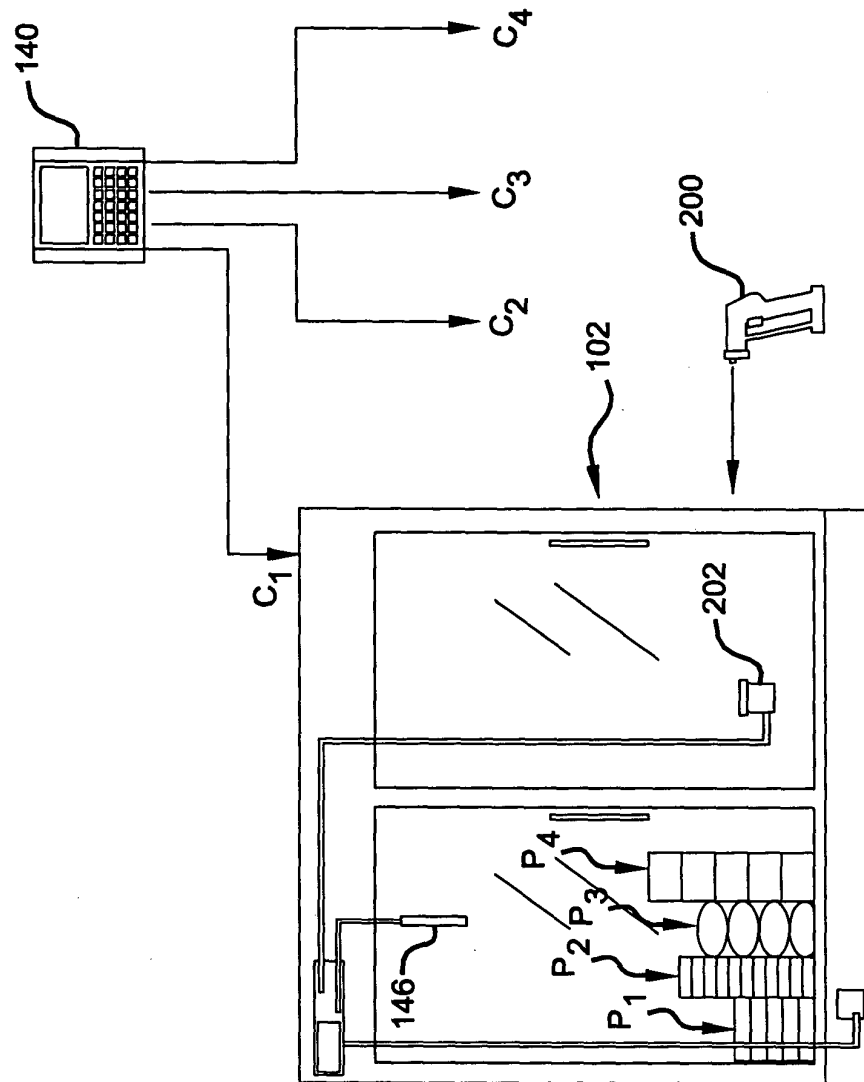


Figure 3

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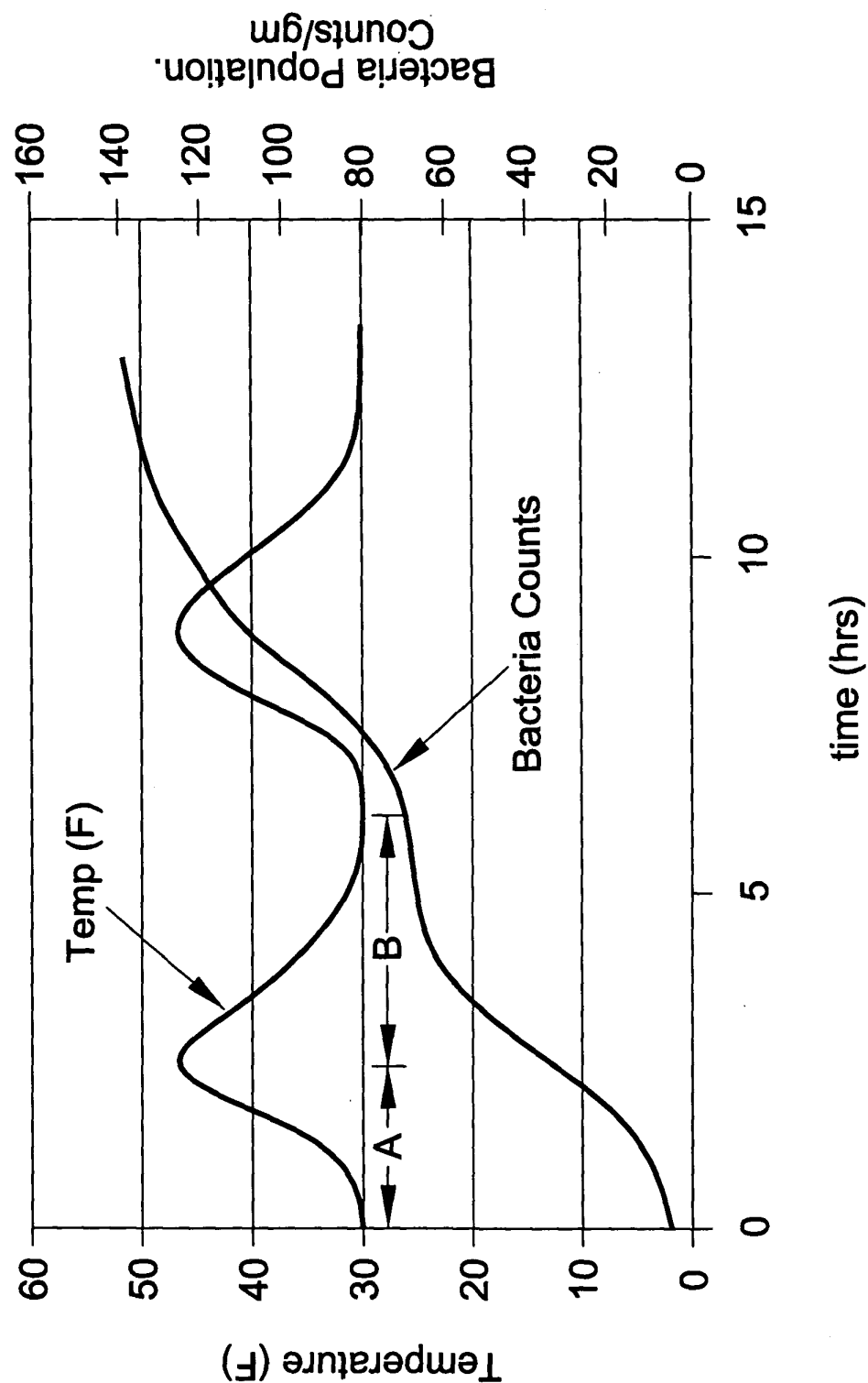


Figure 4

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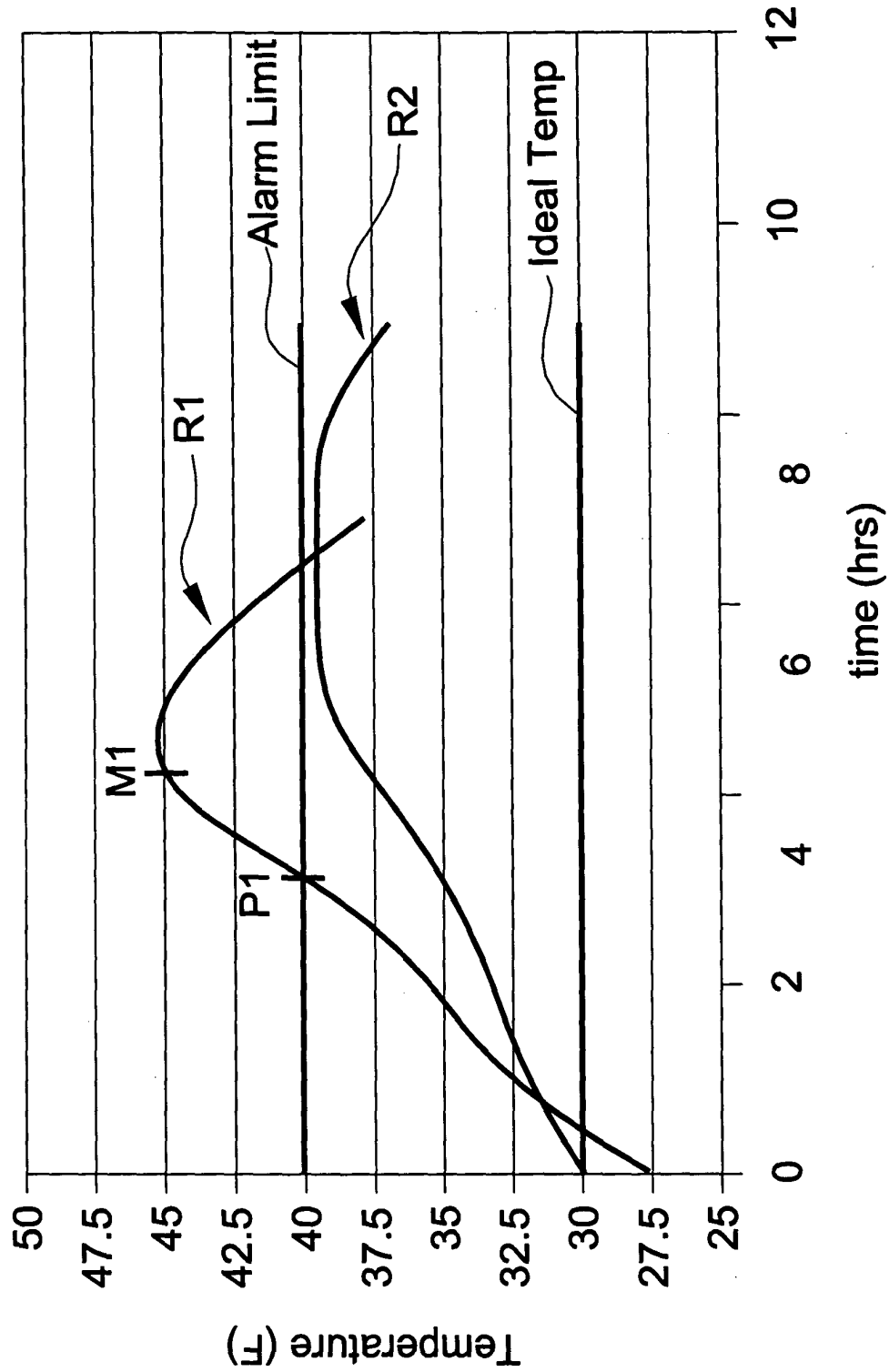


Figure 5

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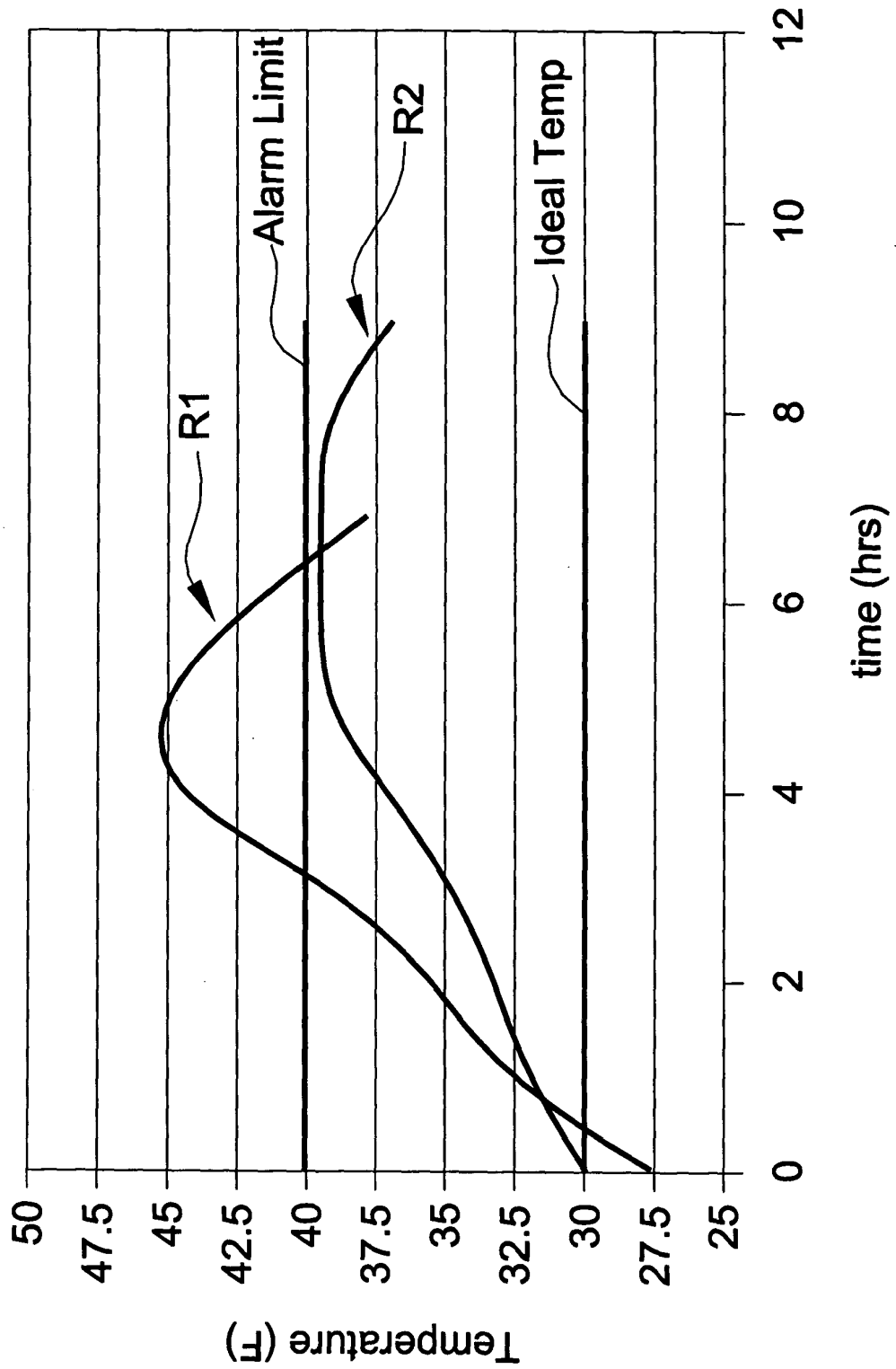


Figure 6

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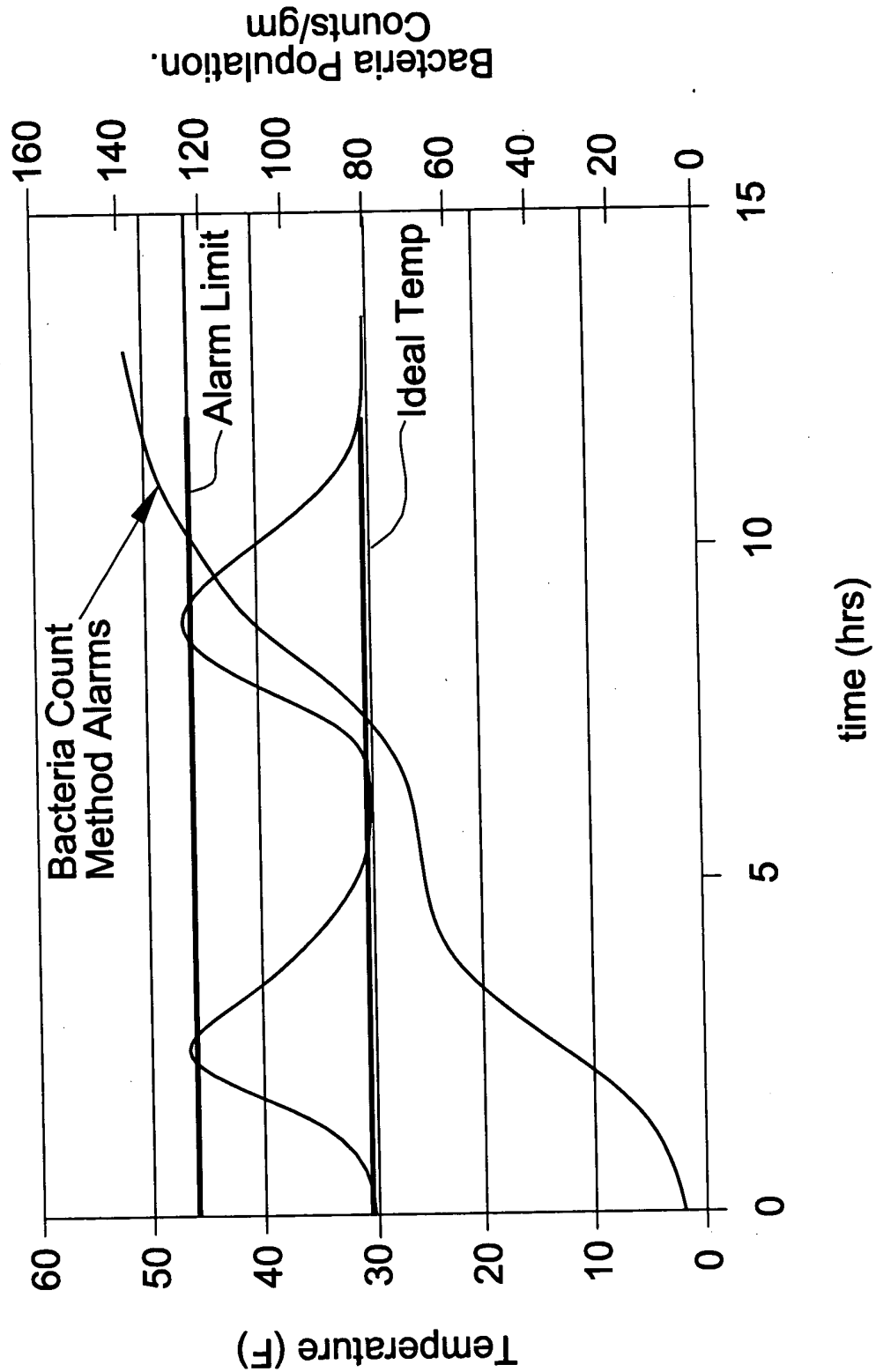


Figure 7

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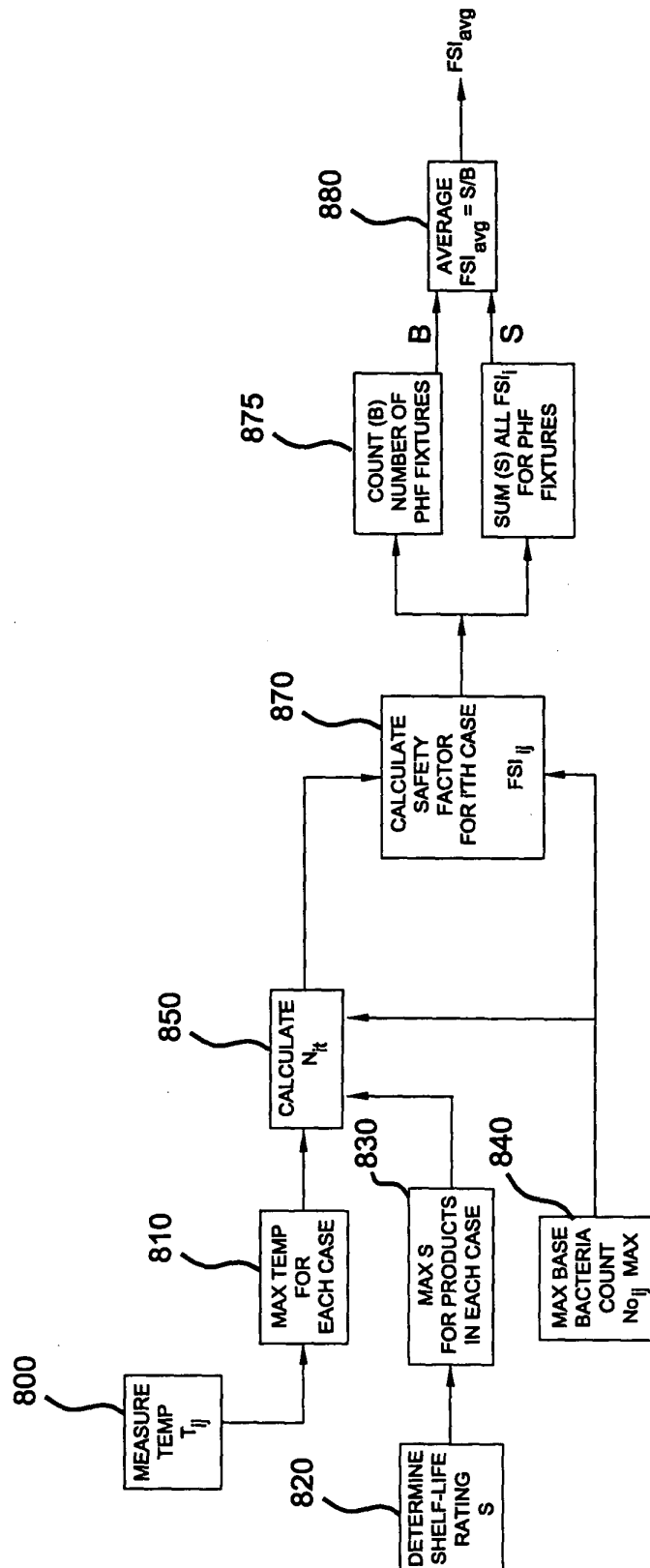


Figure 8

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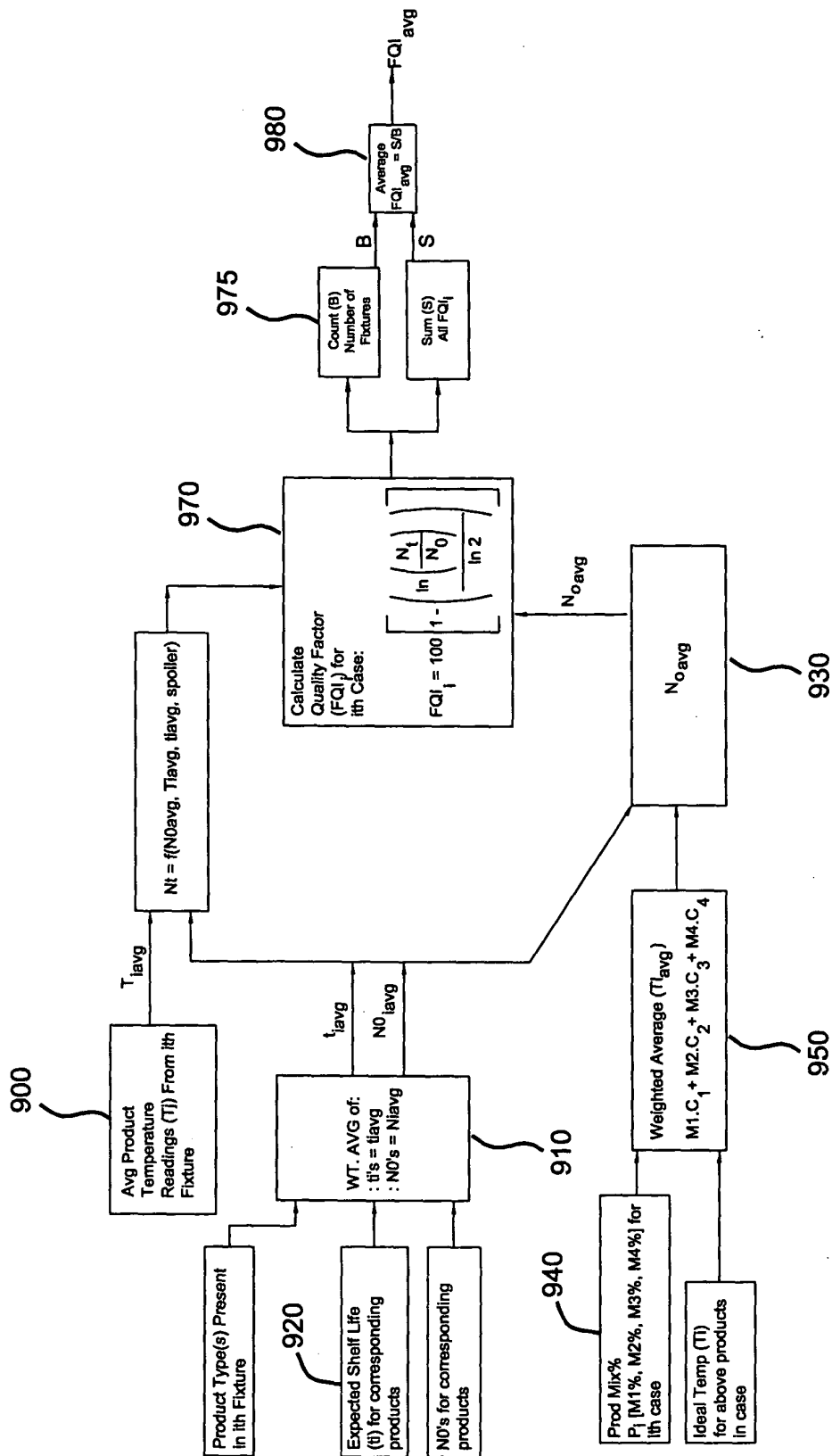


Figure 9

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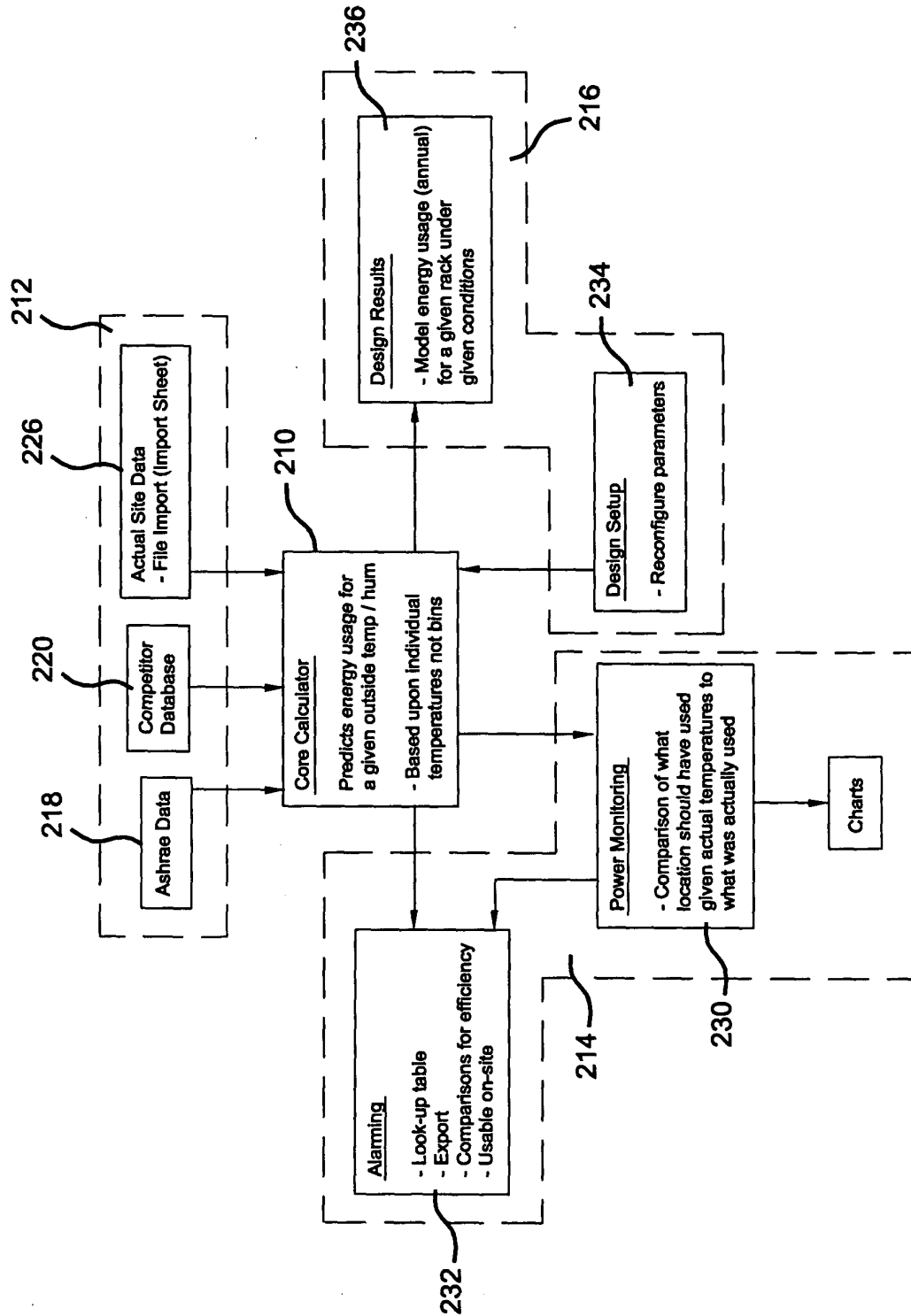


Figure 10

Ashtree Data for 72 Cities in Degrees F														WORKING PAGE, DO NOT CHANGE													
typical year through 1998														Each bin range extends from the temperature shown to the bottom of the next higher range. The bottom and top bins are open ended eg. 126.5 to 99999													
# bins	bin size	bin size	top range	24	7F	127F	ABEDMTW WY2	ALBIRNMW WY2	ARLROCKW WY2	AZPHNIXT WY2	AZPHNIXW WY2	BCVANCWV WY2	CAFRESNT WY2														
Month	Bin Temp	DryBulb	WetBulb	DryBulb	WetBulb	DryBulb	WetBulb	DryBulb	WetBulb	DryBulb	WetBulb	DryBulb	WetBulb														
Jan	126	0	0	0	0	0	0	0	0	0	0	0	0														
Jan	120	0	0	0	0	0	0	0	0	0	0	0	0														
Jan	113	0	0	0	0	0	0	0	0	0	0	0	0														
Jan	107	0	0	0	0	0	0	0	0	0	0	0	0														
Jan	100	0	0	0	0	0	0	0	0	0	0	0	0														
Jan	94	0	0	0	0	0	0	0	0	0	0	0	0														
Jan	87	0	0	0	0	0	0	0	0	0	0	0	0														
Jan	81	0	0	0	0	0	0	0	0	0	0	0	0														
Jan	74	0	0	0	0	0	0	0	0	0	0	0	0														
Jan	68	0	0	0	0	4	0	27	1	45	0	0	0														
Jan	61	0	10	37	17	51	16	113	4	108	5	0	2														
Jan	55	0	45	115	57	71	63	178	17	134	4	0	0														
Jan	48	0	114	148	82	52	46	148	151	131	95	52	16														
Jan	42	0	149	133	154	142	86	145	304	213	317	208	122														
Jan	35	8	134	107	143	126	154	92	202	71	198	161	219														
Jan	29	24	79	78	117	108	137	29	61	25	82	135	120														
Jan	22	85	121	82	112	100	113	0	1	14	34	153	186														
Jan	16	70	52	37	54	64	89	0	0	0	6	35	78														
Jan	9	69	39	7	8	26	33	0	1	0	0	0	1														
Jan	3	72	1	0	0	0	7	0	0	0	0	0	0														
Jan	-4	84	0	0	0	0	0	0	1	0	0	0	0														
Jan	-10	184	0	0	0	0	0	0	0	0	0	0	0														
Jan	-17	63	0	0	0	0	0	0	0	0	0	0	0														
Jan	-99999	85	0	0	0	0	0	0	0	0	0	0	0														
Feb	126	0	0	0	0	0	0	0	1	0	0	0	0														
Feb	120	0	0	0	0	0	0	0	0	0	0	0	0														
Feb	113	0	0	0	0	0	0	0	0	0	0	0	0														
Feb	107	0	0	0	0	0	0	0	0	0	0	0	0														
Feb	100	0	0	0	0	0	0	0	0	0	0	0	0														
Feb	94	0	0	0	0	0	0	0	0	0	0	0	0														
Feb	87	0	0	0	0	0	0	0	0	0	0	0	0														
Feb	81	0	0	0	0	0	0	2	0	3	0	0	0														
Feb	74	0	1	4	0	0	0	13	0	8	1	0	0														
Feb	68	0	0	19	0	52	3	65	2	65	0	0	0														
Feb	61	0	4	92	71	33	13	105	1	91	1	0	1														
Feb	55	0	71	106	73	54	33	141	6	166	88	0	0														
Feb	48	0	77	90	53	89	72	130	115	152	169	18	1														
Feb	42	0	156	125	130	206	139	156	294	152	246	313	167														
Feb	35	22	99	73	122	104	179	68	201	28	152	244	376														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb	29	73	101	99	100	101	121	5	47	7	15	92	322														
Feb</																											

## Figure 11

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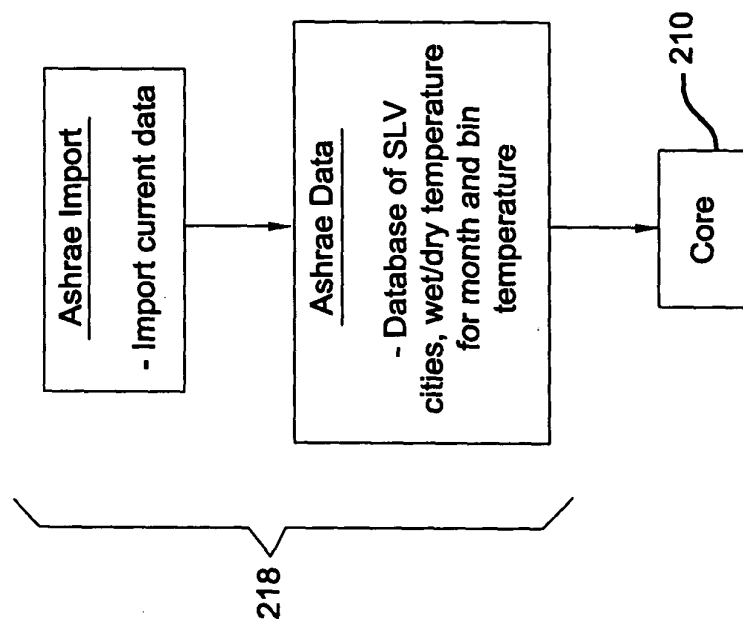


Figure 12

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		DO NOT CHANGE.... THIS PAGE IS POSITION DEPENDENT AND USED TO IMPORT NEW ASHRAE DATA !!!!																										
WYEC-2 site		NMALBUQW.WY2 (Albuquerque, New Mexico)																										
Latitude:		35.05 Longitude: -106.62																										
quantity	WYEC2 wetbulb																											
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	672
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	720
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	720
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	720
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	720
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8760

Figure 13

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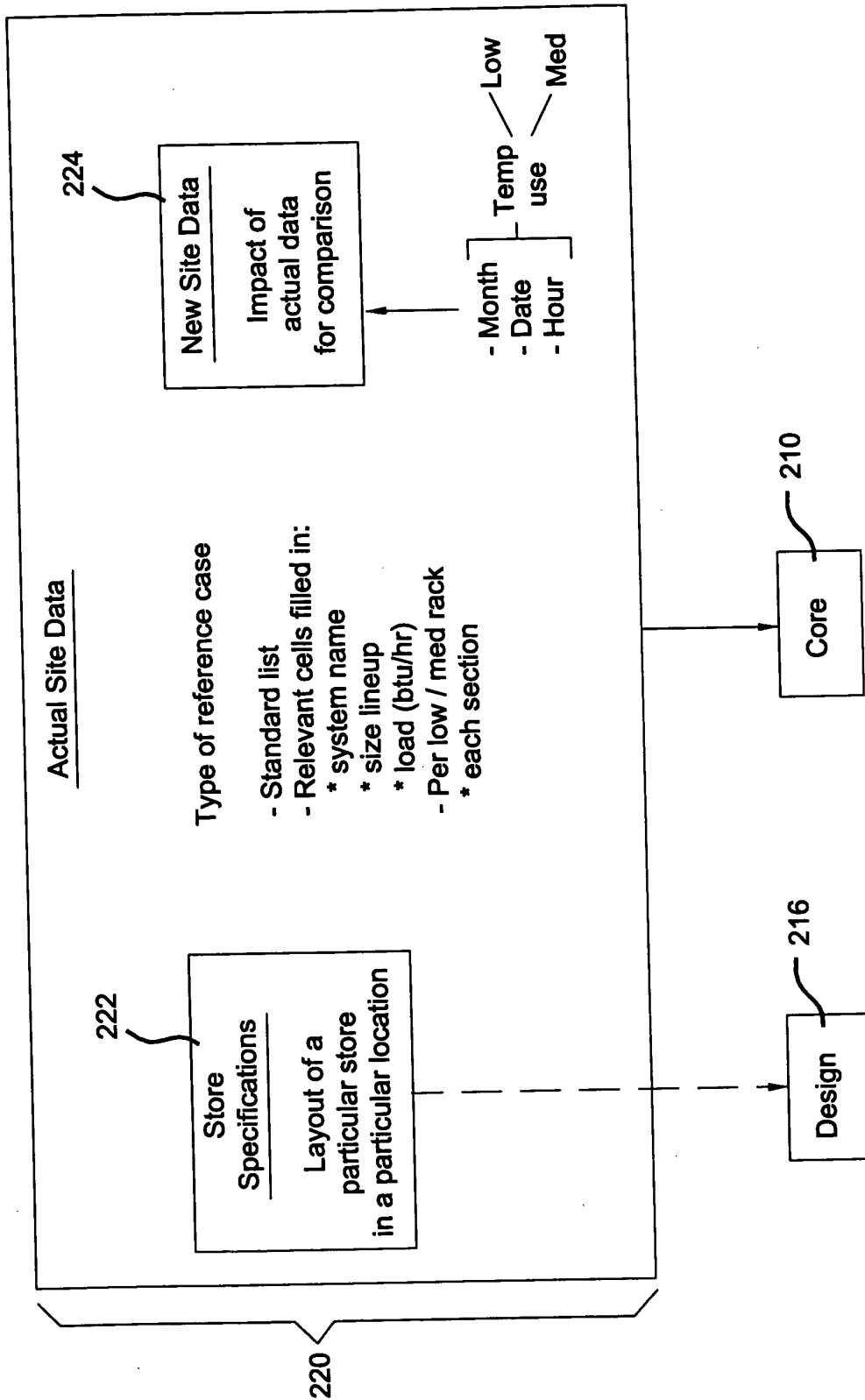


Figure 14

**Figure 15**

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DO NOT CHANGE... USED FOR ACTUAL DATA ... may be position dependent												
ACTUAL DAY BY DAY, HOUR BY HOUR DATA												
Data must be sorted by date and hour												
kwmonth	kwdate	kwhour	temp	kwuselt	kwusemt	Storepop	kwdate	kwhour	temp	kwuselt	kwusemt	Storepop
1	01/18/01	1.0	44.8	40.8	43.0	2.0	1/18/01	1	39	39	43	2
1	01/18/01	2.0	44.8	40.8	43.0	2.0	1/18/01	2	39	39	43	2
1	01/18/01	3.0	44.8	40.8	43.0	2.0	1/18/01	3	39	39	43	2
1	01/18/01	4.0	44.8	40.8	43.0	2.0	1/18/01	4	39	39	43	2
1	01/18/01	5.0	44.8	40.8	43.0	2.0	1/18/01	5	39	39	43	2
1	01/18/01	6.0	44.8	40.8	43.0	2.0	1/18/01	6	39	39	43	2
1	01/18/01	7.0	44.8	40.8	43.0	2.0	1/18/01	7	39	39	43	2
1	01/18/01	8.0	44.8	40.8	43.0	2.0	1/18/01	8	39	39	43	2
1	01/18/01	9.0	44.8	40.8	43.0	2.0	1/18/01	9	39	39	43	2
1	01/18/01	10.0	44.8	40.8	43.0	2.0	1/18/01	10	39	39	43	2
1	01/18/01	11.0	44.8	40.8	43.0	2.0	1/18/01	11	39	39	43	2
1	01/18/01	12.0	44.8	40.8	43.0	2.0	1/18/01	12	39	39	43	2
1	01/18/01	13.0	44.8	40.8	43.0	2.0	1/18/01	13	39	39	43	2
1	01/18/01	14.0	44.8	40.8	43.0	2.0	1/18/01	14	39	39	43	2
1	01/18/01	15.0	44.8	40.8	43.0	2.0	1/18/01	15	39	39	43	2
1	01/18/01	16.0	44.8	40.8	43.0	2.0	1/18/01	16	39	39	43	2
1	01/18/01	17.0	44.8	40.8	43.0	2.0	1/18/01	17	39	39	43	2
1	01/18/01	18.0	44.8	40.8	43.0	2.0	1/18/01	18	39	39	43	2
1	01/18/01	19.0	44.8	40.8	43.0	2.0	1/18/01	19	39	39	43	2
1	01/18/01	20.0	44.8	40.8	43.0	2.0	1/18/01	20	39	39	43	2
1	01/18/01	21.0	44.8	40.8	43.0	2.0	1/18/01	21	39	39	43	2
1	01/18/01	22.0	44.8	40.8	43.0	2.0	1/18/01	22	39	39	43	2
1	01/18/01	23.0	44.8	40.8	43.0	2.0	1/18/01	23	39	39	43	2
1	01/18/01	0.0	44.8	40.8	43.0	2.0	1/19/01	0	39	16	42	2

Figure 16

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GENERAL MODEL CALCULATIONS																			
LOW and MEDIUM TEMP RACK kWh Use for Each Bin Hour																			
Amb Temp	Cond T		Subcooler T		Suct T.....-25F		Suct T.....-35F		Suct T.....15F		Total Comp KW	Condenser Calculations		Annual Energy					
	Temp	Tin	Tout	Base Load.....	Comp Eff.....	Base Load.....	Comp Eff.....	Base Load.....	Comp Eff.....	Heat of Rejection (Btu/hr)		req. cap.	fan KW	Comp kWh	Cond kWh	Total kWh			
-25	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	27%	0.35	29	0.35	30	
-24	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	28%	0.35	29	0.35	30	
-23	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	28%	0.35	29	0.35	30	
-22	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	28%	0.36	29	0.36	30	
-21	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	29%	0.36	29	0.36	30	
-20	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	29%	0.37	29	0.37	30	
-19	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	29%	0.37	29	0.37	30	
-18	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	30%	0.38	29	0.38	30	
-17	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	31%	0.39	29	0.39	30	
-16	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	31%	0.39	29	0.39	30	
-15	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	32%	0.40	29	0.40	30	
-14	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	32%	0.41	29	0.41	30	
-13	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	32%	0.41	29	0.41	30	
-12	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	33%	0.42	29	0.42	30	
-11	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	33%	0.42	29	0.42	30	
-10	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	33%	0.42	29	0.42	30	
-9	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	34%	0.43	29	0.43	30	
-8	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	35%	0.44	29	0.44	30	
-7	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	35%	0.45	29	0.45	30	
-6	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	36%	0.45	29	0.45	30	
-5	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	36%	0.46	29	0.46	30	
-4	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	37%	0.47	29	0.47	30	
-3	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	37%	0.48	29	0.48	30	
-2	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	38%	0.48	29	0.48	30	
-1	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	39%	0.49	29	0.49	30	
0	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	40%	0.50	29	0.50	30	
1	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	40%	0.51	29	0.51	30	
2	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	41%	0.52	29	0.52	30	
3	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	42%	0.53	29	0.53	30	
4	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	43%	0.54	29	0.54	30	
5	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	43%	0.55	29	0.55	30	
6	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	44%	0.56	29	0.56	30	
7	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	45%	0.57	29	0.57	30	
8	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	46%	0.59	29	0.59	30	
9	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	47%	0.60	29	0.60	30	
10	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	48%	0.61	29	0.61	30	
11	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	49%	0.63	29	0.63	30	
12	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	50%	0.64	29	0.64	30	
13	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	52%	0.65	29	0.65	30	
14	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	53%	0.67	29	0.67	30	
15	55.5285	40.5	40.5	40.5	-	281.332	27.76	-	13.580	1.58	-	29.34	395.006	54%	0.69	29	0.69	30	

Figure 17

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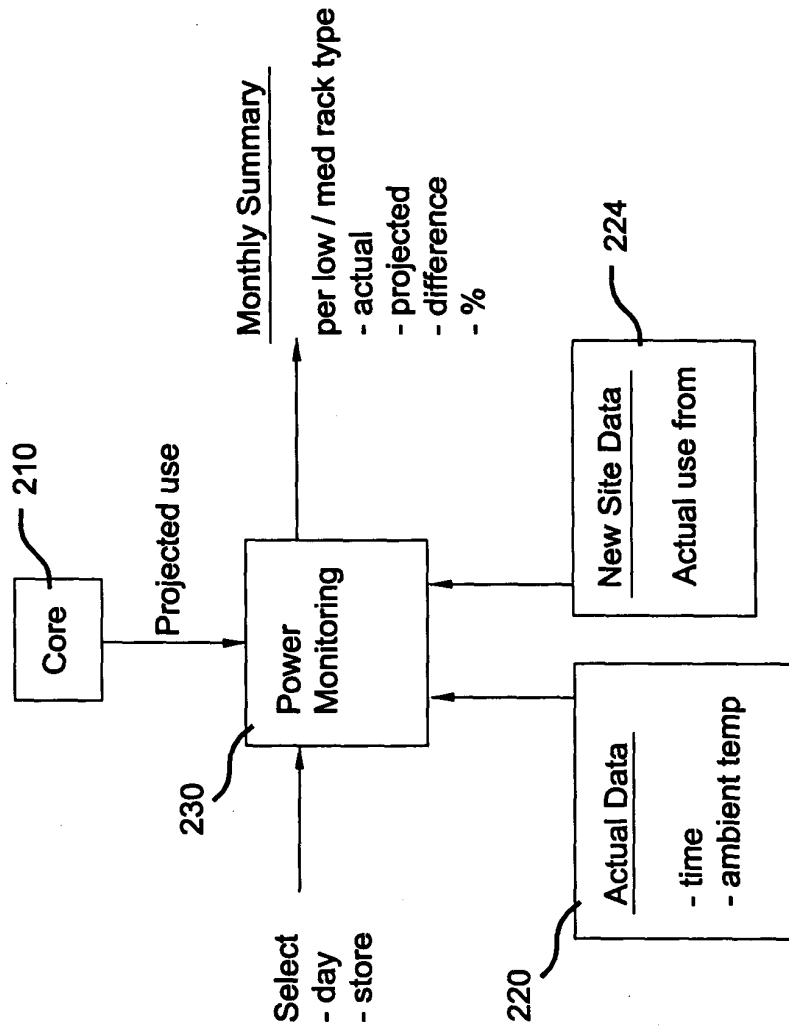


Figure 18

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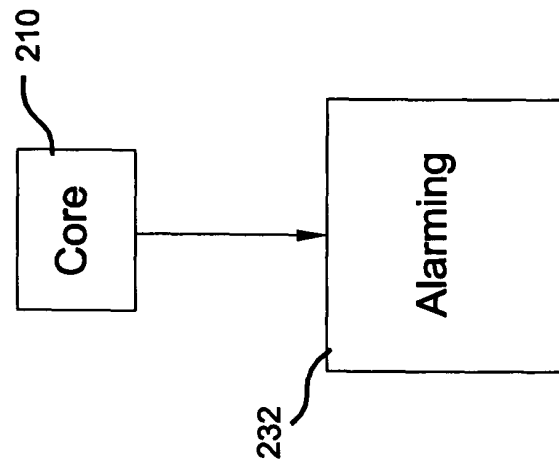


Figure 19

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POWER MONITORING TOOL actual versus projected use									
<p>Enter Beginning Day and Hour to start 24 hour summary  Monthly data will begin on the specified date and run for 31 days  Yearly data will be accumulated by actual month</p> <p>STORE NAME <input type="text"/></p> <p>Beginning Day <input type="text"/></p> <p>Beginning Hour (0-23) <input type="text"/></p> <p>Date Index .... calculated, do not enter</p> <p>Click to Update Date and Time <input type="button" value="Update"/></p> <p>Comparison Charts available on next page</p>									
<p><b>#22 - MONTHLY SUMMARY</b></p> <p><b>LOW TEMP RACK</b></p> <p>Actual kWh Use 14,938</p> <p>Projected kWh Use 12,463</p> <p>Difference 2,475</p> <p>% Over/Under(-) Proj 19.9%</p> <p><b>MEDIUM TEMP RACK</b></p> <p>Actual kWh Use 15,840</p> <p>Projected kWh Use 9,682</p> <p>Difference 6,158</p> <p>% Over/Under(-) Proj 83.6%</p> <p><b>BOTH LOW AND MEDIUM</b></p> <p>Actual kWh Use 30,778</p> <p>Projected kWh Use 22,145</p> <p>Difference 8,633</p> <p>% Over/Under(-) Proj 39.0%</p>									
ACTUAL HOURLY DATA									
Time of Day	Ambient Temp	Occupancy Factor	Low Temp Rack Total kWh	Medium Temp Rack Total kWh	Low Temp Rack Total kWh	Medium Temp Rack Total kWh	Low Temp Rack Total kWh	Medium Temp Rack Total kWh	Total kWh
1	45		33,825	25,120	40,381	41,500	6,558	19,434	81,881
2	44		33,334	24,450	40,769	43,000	7,435	22,33%	83,769
3	44		33,334	24,450	40,769	43,000	7,435	22,33%	83,769
4	44		33,334	24,450	40,769	43,000	7,435	22,33%	83,769
5	44		33,334	24,450	40,769	43,000	7,435	22,33%	83,769
6	44		33,334	24,450	40,769	43,000	7,435	22,33%	83,769
7	44		33,334	24,450	40,769	43,000	7,435	22,33%	83,769
8	44		33,334	24,450	40,769	43,000	7,435	22,33%	83,769
9	44		33,334	24,450	40,769	43,000	7,435	22,33%	83,769
10	44		33,334	24,450	40,769	43,000	7,435	22,33%	83,769
11	44		33,334	24,450	40,769	43,000	7,435	22,33%	83,769
12	44		33,334	24,450	40,769	43,000	7,435	22,33%	83,769
13	44		33,334	24,450	40,769	43,000	7,435	22,33%	83,769
14	44		33,334	24,450	40,769	43,000	7,435	22,33%	83,769
15	44		33,334	24,450	40,769	43,000	7,435	22,33%	83,769
16	44		33,334	24,450	40,769	43,000	7,435	22,33%	83,769
17	44		33,334	24,450	40,769	43,000	7,435	22,33%	83,769
18	44		33,334	24,450	40,769	43,000	7,435	22,33%	83,769
19	44		33,334	24,450	40,769	43,000	7,435	22,33%	83,769
COMPARISON									
			Low Temp Rack Over Est kWh	Medium Temp Rack Over Est kWh	Low Temp Rack Over Est kWh	Medium Temp Rack Over Est kWh	Low Temp Rack Over Est kWh	Medium Temp Rack Over Est kWh	Running Tot Over Est kWh
			6,558	19,434	16,380	65.2%	22,938	38.9%	22,938
			7,435	22,33%	18,550	75.9%	25,985	45.0%	48,921
			7,435	22,33%	18,550	75.9%	25,985	45.0%	74,906
			7,435	22,33%	18,550	75.9%	25,985	45.0%	100,891
			7,435	22,33%	18,550	75.9%	25,985	45.0%	126,875
			7,435	22,33%	18,550	75.9%	25,985	45.0%	152,860
			7,435	22,33%	18,550	75.9%	25,985	45.0%	178,844
			7,435	22,33%	18,550	75.9%	25,985	45.0%	204,829
			7,435	22,33%	18,550	75.9%	25,985	45.0%	230,814
			7,435	22,33%	18,550	75.9%	25,985	45.0%	256,798
			7,435	22,33%	18,550	75.9%	25,985	45.0%	282,783
			7,435	22,33%	18,550	75.9%	25,985	45.0%	308,767
			7,435	22,33%	18,550	75.9%	25,985	45.0%	334,752
			7,435	22,33%	18,550	75.9%	25,985	45.0%	360,737
			7,435	22,33%	18,550	75.9%	25,985	45.0%	386,721
			7,435	22,33%	18,550	75.9%	25,985	45.0%	412,706
			7,435	22,33%	18,550	75.9%	25,985	45.0%	438,691
			7,435	22,33%	18,550	75.9%	25,985	45.0%	464,675
			7,435	22,33%	18,550	75.9%	25,985	45.0%	490,660

Figure 20

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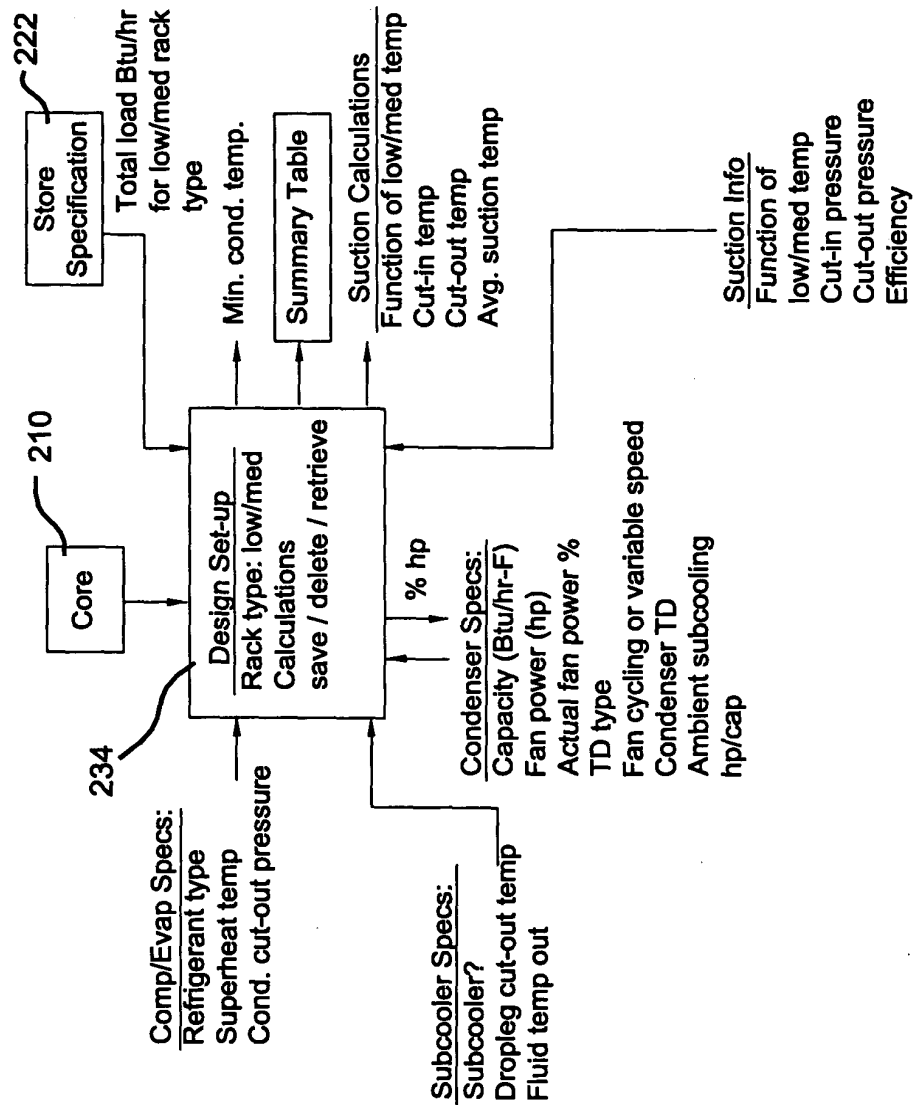


Figure 21

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DESIGN TOOL SETUP		AZPHNIXT (Phoenix)		STORE:	#22	Period	All						
Select Scenario. Enter Specifications Below, and Save Scenario													
<div> <input checked="" type="radio"/> Save           <input type="radio"/> Delete           <input type="radio"/> Retrieve         </div>													
<div> <div> #1 BASE CASE - - High cond temp -LT Rack 2/4/01 807,550 kWh  #2 RETROFIT CAS - Rev Disch and Suct Press 2/4/01 769,018 kWh  #3 BASE CASE - - No Subcooler 3/10/01 1,125,150 kWh  #4 is available  #5 is available  #6 is available  #7 is available  #8 is available  #9 is available  #10 is available </div> <div> <input checked="" type="radio"/> Save           <input type="radio"/> Delete           <input type="radio"/> Retrieve         </div> </div>													
<div> <div> Scenario  Comment  Date  Scenario#  Period </div> <div> Retrofit Case  Rev Disch and Suct Press  2/4/2001  2  All </div> </div>													
Enter items in 'bold' above, before saving scenario													
CURRENT SCENARIO													
<div> <div> Scenario  Comment  Date  Scenario#  Period </div> <div> Retrofit Case  Rev Disch and Suct Press  2/4/2001  2  All </div> </div>													
Enter items in 'bold' above, before saving scenario													
LOW to MEDIUM TEMP RACK													
Comp/Evap. Spec.													
Refrigerant.....	R-507	Suction #1	Cut-in: Cut-out: Avg suction Comp Eff	-25F 14.0psig 14.0psig 65%	Loads -25.5F -25.5F 65%	Suction #2	Cut-in: Cut-out: Avg suction Comp Eff	-35F 8.0psig 8.0psig 65%	Loads -35.3F -35.3F -35.3F 65%	Suction #3	Cut-in: Cut-out: Avg suction Comp Eff	15F 52.0psig 52.0psig 65%	Loads 14.8F 14.8F 14.8F 65%
Superheat.....	25F												
Min. cond. temp.....	55.5F												
Condenser cut-out:	120.0psig												
Subcooler Characteristics													
Subcooler?	Y												
Dropleg cutout temp	50F												
Fluid temp out	50F												
Condenser Characteristics													
Capacity	18,000 Btu/hr-F												
Fan Power	2 hp												
Actual Fan Power	85%												
Select TD type below	fan cycling												
fan cycling or variable speed	20F												
Condenser TD	15F												
Amb. Subcooling	1/3												
hp/cap =	2.71												
%hp = (%cap)^													
RACKS		BTU/hr	Compr	Cond	Total								
LowTemp		294,912	350,372	12,080	362,452								
HighTemp		615,221	376,987	29,580	406,567								
Total		910,133	727,359	41,660	769,019								
taken from Design Tool Results													

Figure 22

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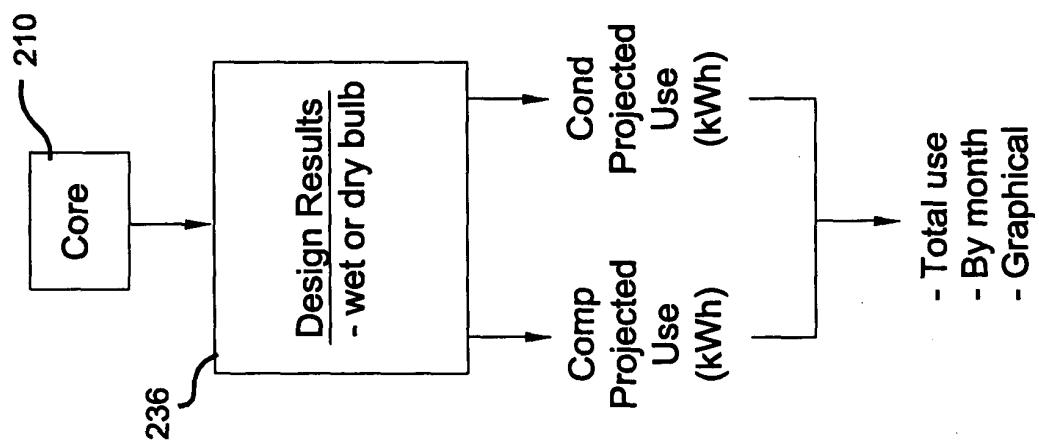


Figure 23

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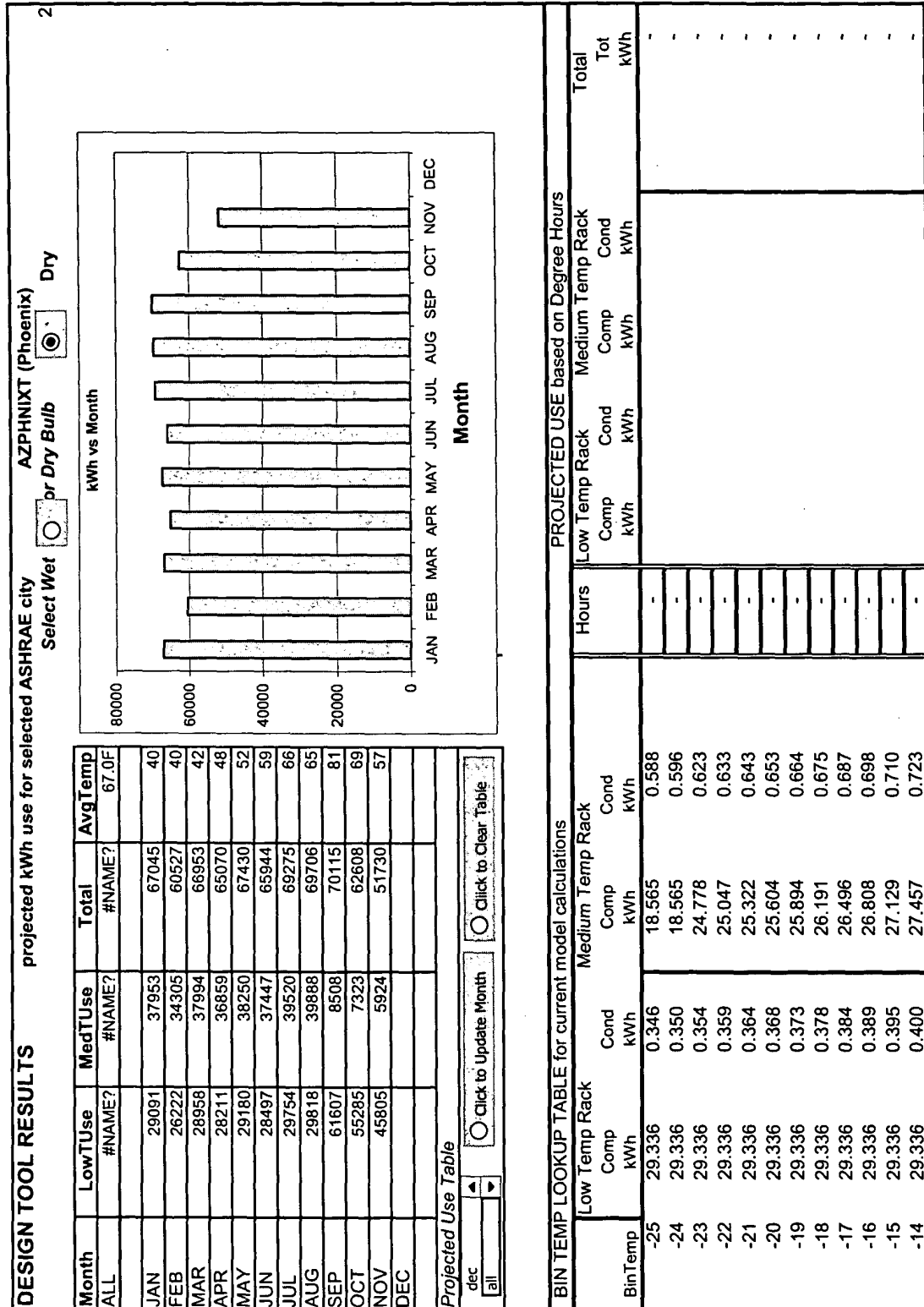


Figure 24

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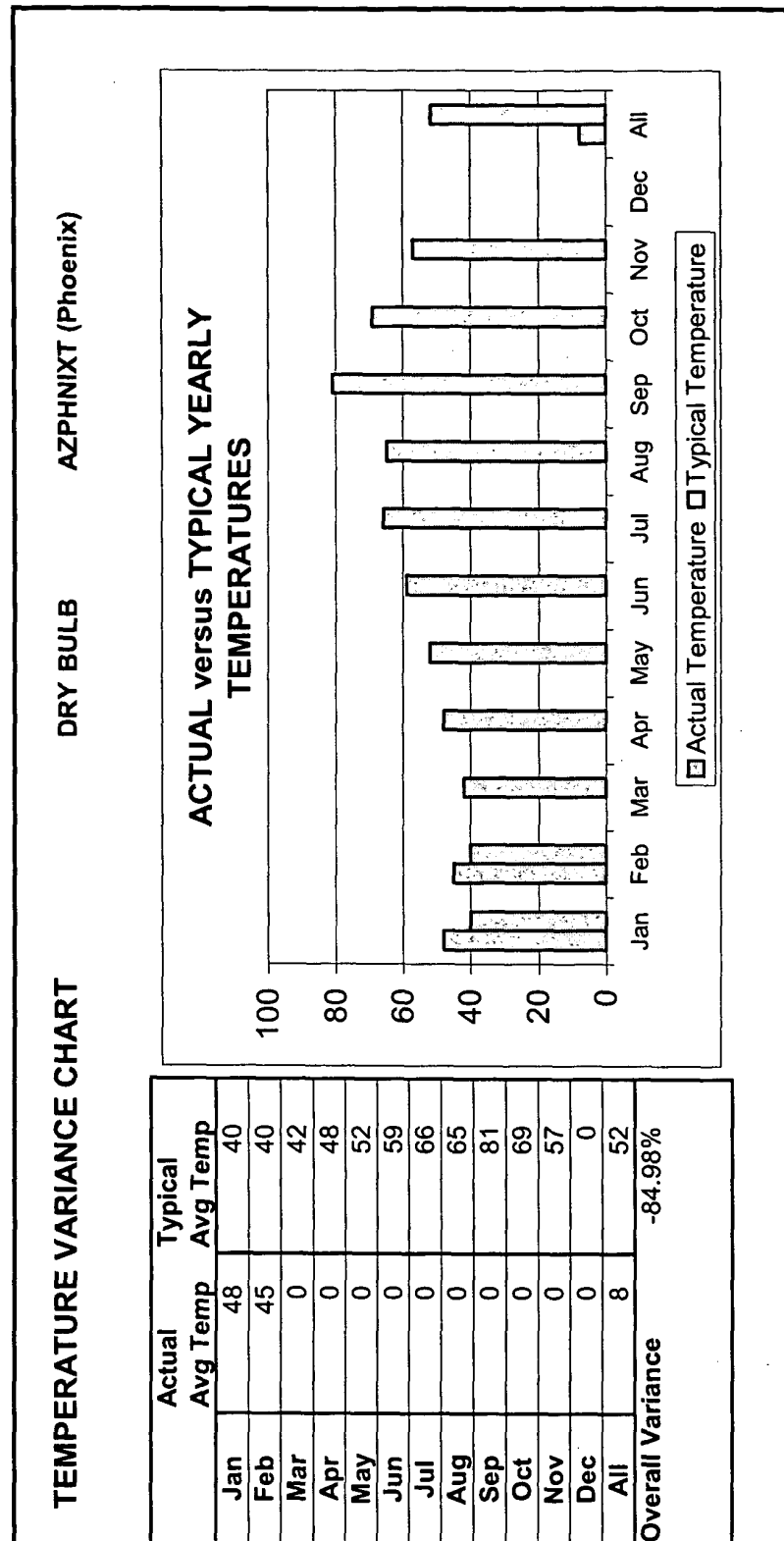


Figure 25

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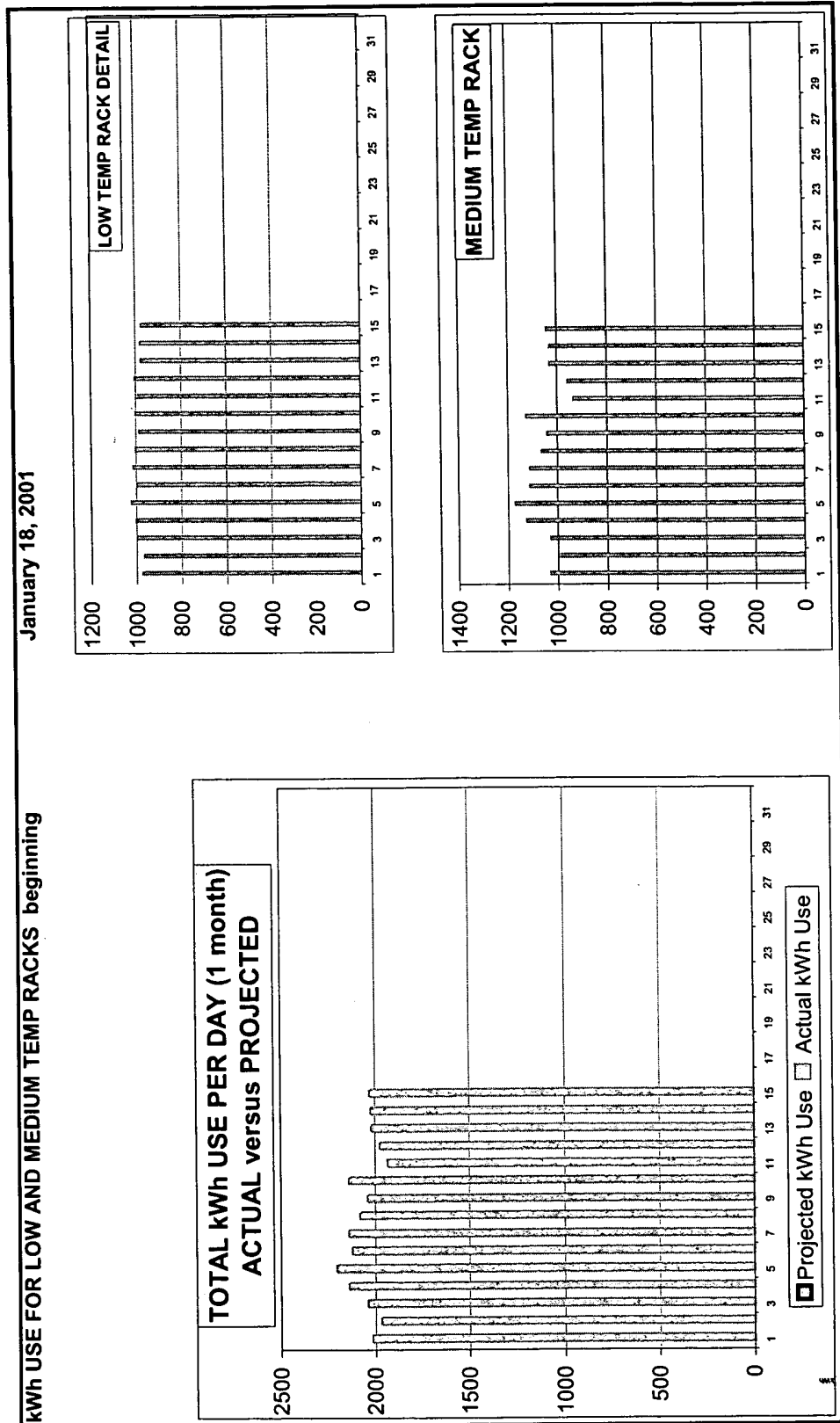
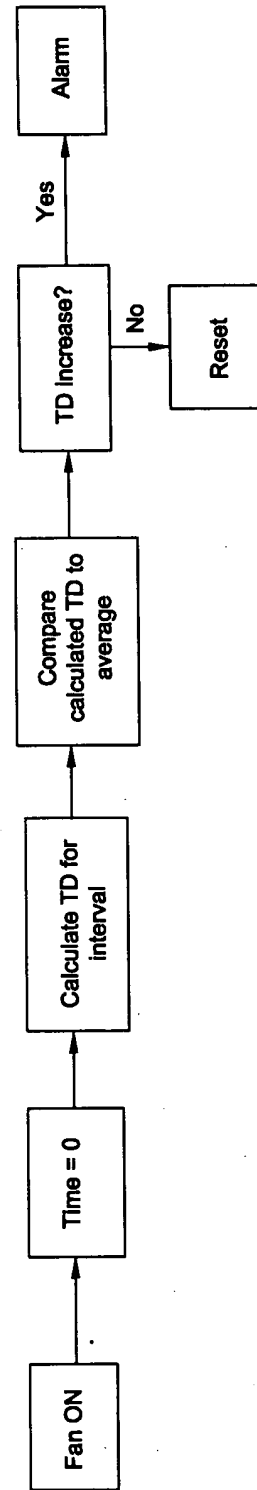
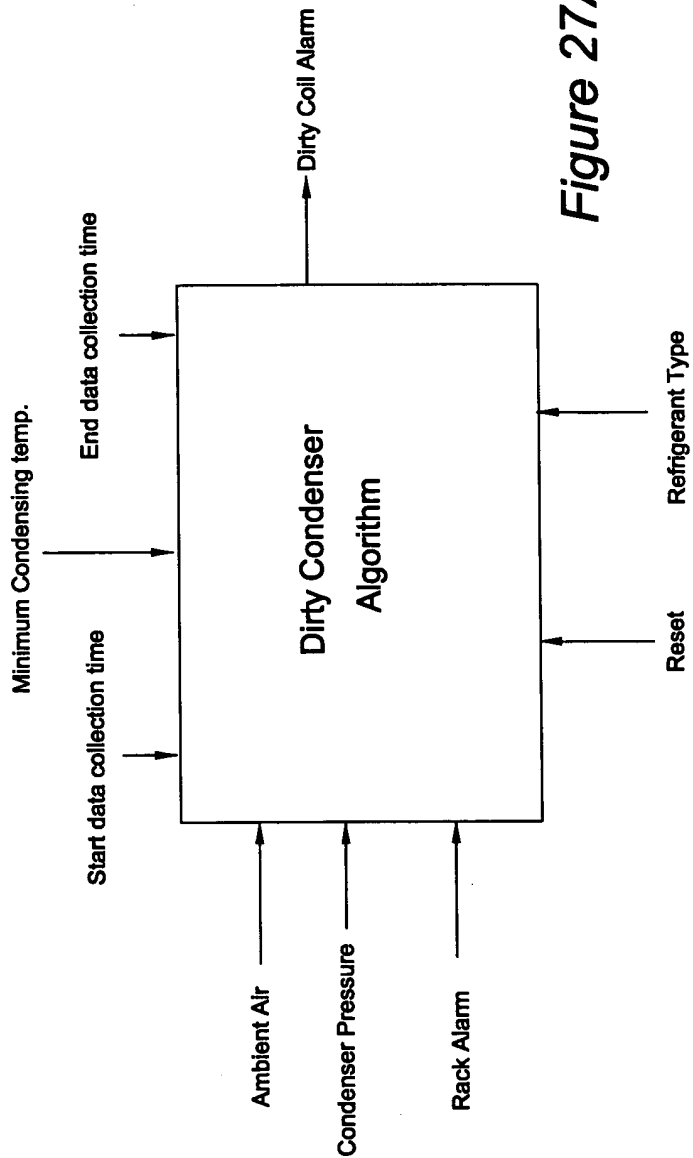


Figure 26

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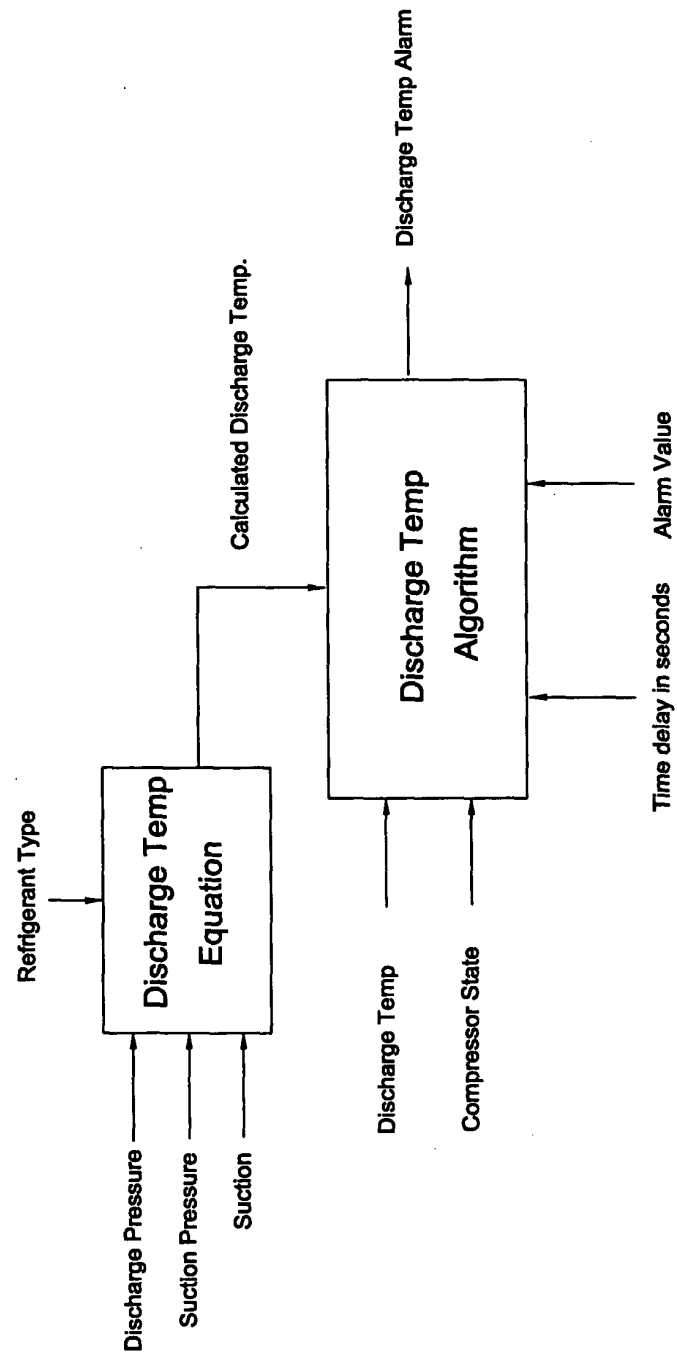


Figure 28

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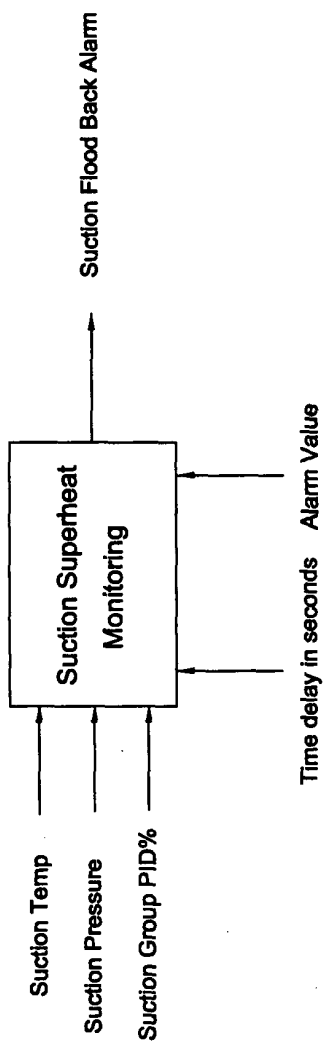


Figure 29A

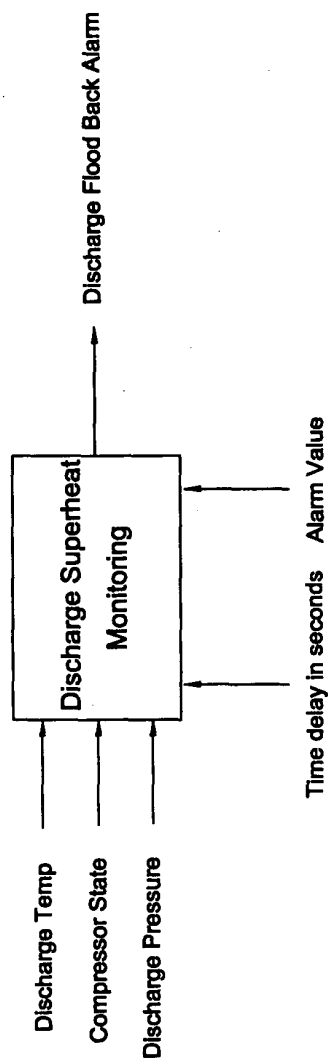


Figure 29B

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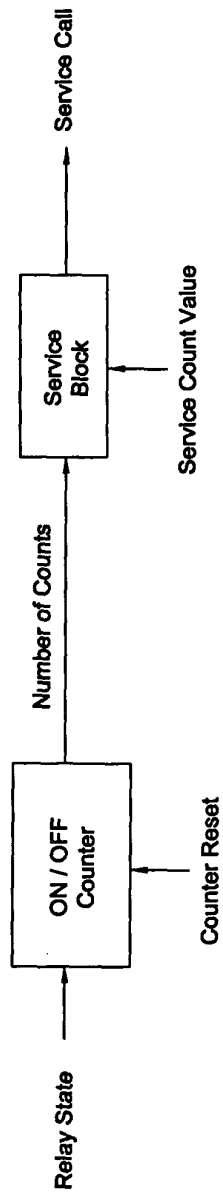
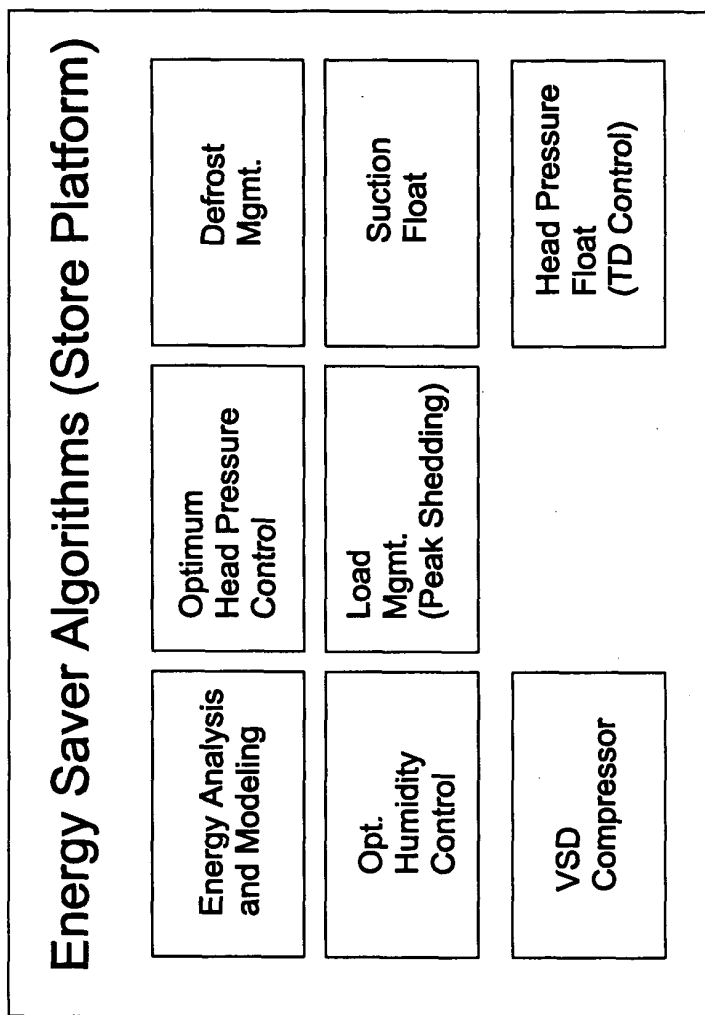


Figure 30

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*Figure 31*

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Actions									
Disc. Air Temp. Sensor Failed	Prod. Temp. Sensor Failed	Disc. Air Time-Temp. Exceeded	Prod. Time-Temp. Exceeded	Prod. Degree-Min. Exceeded	Prod. Degree-Min. Exceeded	Prod. FDA Time-Temp. Exceeded	Spoiler Count Exceeded	Pathogen Count Exceeded	Prod Temp. Cycling
×									Maintenance Advisory: Non-emergency repair
	×								Maintenance Advisory: Maintenance review remotely and respond as necessary
×	×								Store Advisory: Store advised to manually check product temperatures, Maintenance Advisory: Non-emergency repair
×	×								Maintenance Alarm: Immediate action required. Store Advisory: advise manually check of product temperatures
								×	Maintenance Advisory: Review remotely and respond as necessary
			×	×					Store Advisory: Store advised to inspect / correct per procedures; Call maintenance if cannot resolve
						×			Store Alarm: Store must check product temperatures and condition; remove to other refrigerated storage as reqd.
							×		Store Alarm: Store must immediately inspect product in affected fixture; remove product per data code limits
								×	Store Emergency: Store must immediately remove and discard product per data code limits from affected fixture(s)

Figure 32

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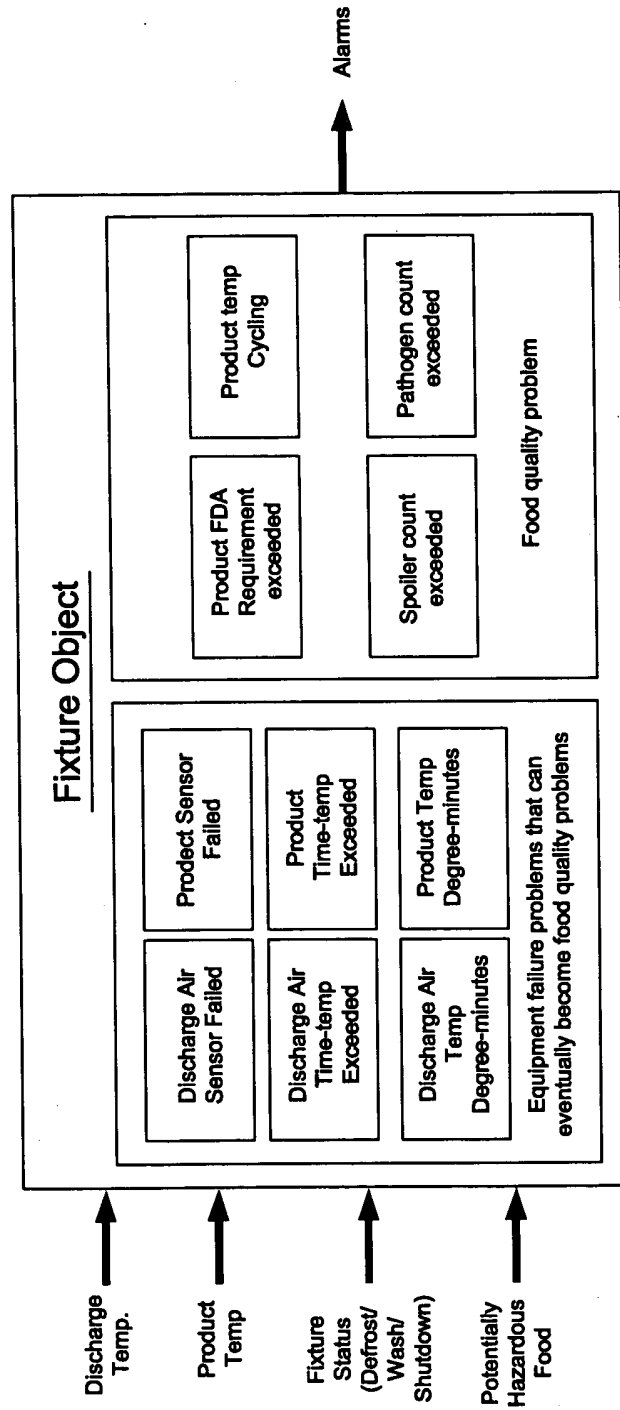


Figure 33

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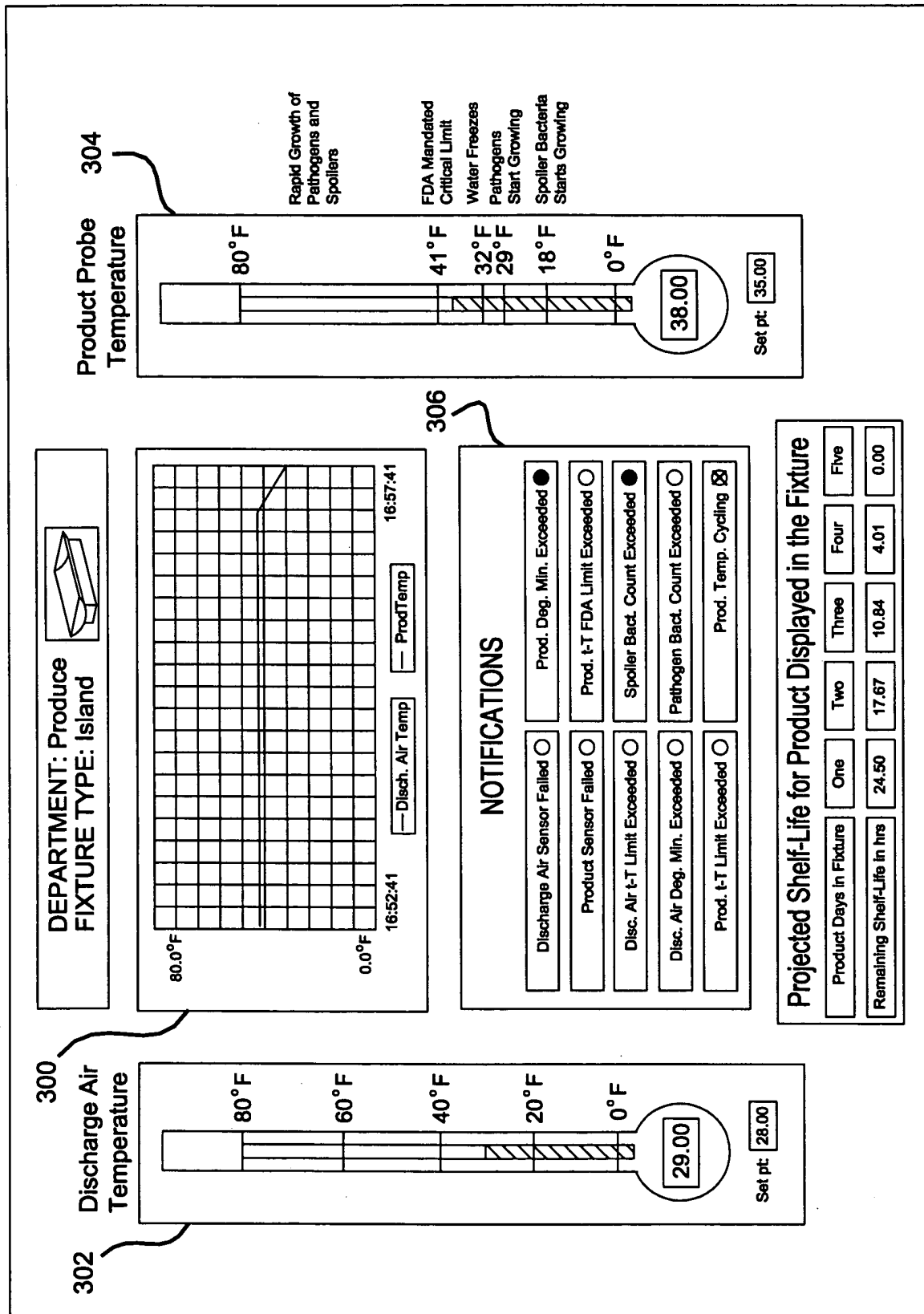


Figure 34